

Exercise 1 A table of data is given below.

x	y
0	2
1	5
2	8
5	

- (a) The rate of change from the top row to the second row is: $\boxed{3}$.
- (b) The rate of change from the top row to the second row is: $\boxed{3}$.
- (c) If this rate of change is maintained, whenever the x -value of a data point increases by 1, the y -value of the data point must increase by $\boxed{3}$.
- (d) If this rate of change is maintained, whenever the x -value of a data point increases by 3, the y -value of the data point must increase by $\boxed{9}$.
- (e) If this rate of change is maintained, the x -value 5 corresponds to the y -value $\boxed{17}$.
- (f) An equation that describes the pattern in the table is $y = \boxed{3x + 2}$.
-